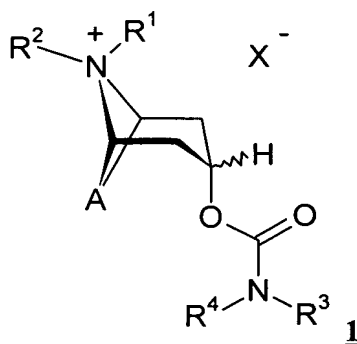


Amendments to the Claims:

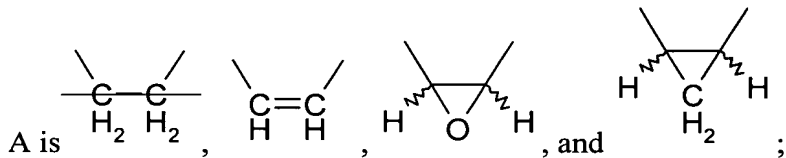
This listing of claims will replace all prior versions and listings of claims in this application:

Listing of Claims:

Claim 1. (Currently amended) A compound of formula 1



wherein:



X⁻ is an anion with a single negative charge;

R¹ and R², which are identical or different, are each C₁-C₅-alkyl optionally substituted by a C₃-C₆-cycloalkyl, hydroxy, or halogen, or

R¹ and R² together are a C₃-C₅-alkylene bridge; and

R³ and R⁴, which are identical or different, are each:

- (a) hydrogen, or
- (b) C₁-C₅-alkyl optionally mono- or polysubstituted by hydroxy, halogen, -CF₃, or -OC₁-C₄-alkyl, or

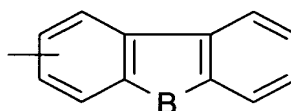
- (c) a C₂-C₅-alkenyl or C₂-C₅-alkynyl group, each optionally mono- or polysubstituted by hydroxy, halogen, -CF₃, -OC₁-C₄-alkyl, phenyl, or phenyl mono- or polysubstituted by methyl, halogen, hydroxy, -CF₃, or methoxy, or
- (d) C₆-C₁₀-aryl optionally substituted by one or more groups selected from C₁-C₄-alkyl, hydroxy, ~~halogen~~, fluorine, bromine, -CF₃, -OC₁-C₄-alkyl, phenyl, or phenyl mono- or polysubstituted by methyl, ~~halogen~~ fluorine, bromine, hydroxy, -CF₃, or methoxy, or
- (e) C₆-C₁₀-aryl substituted by a 5- or 6-membered heteroaryl ring optionally mono- or polysubstituted by methyl, halogen, hydroxy, -CF₃, or methoxy, or
- (f) C₆-C₁₀-aryl-C₁-C₄-alkylene optionally substituted at the aryl group by one or more groups selected from C₁-C₄-alkyl, hydroxy, halogen, -CF₃, -OC₁-C₄-alkyl, phenyl, or phenyl mono- or polysubstituted by methyl, halogen, hydroxy, -CF₃, or methoxy, or
- (g) C₆-C₁₀-aryl-C₁-C₄-alkylene substituted at the aryl group by a 5- or 6-membered heteroaryl ring optionally mono- or polysubstituted by methyl, halogen, hydroxy, -CF₃, or methoxy, or
- (h) C₆-C₁₀-aryl-C₁-C₄-alkylene optionally substituted at the alkylene group by one or more groups selected from C₁-C₄-alkyl, hydroxy, halogen, -CF₃, -OC₁-C₄-alkyl, or phenyl, or
- (i) a 5- or 6-membered saturated or unsaturated ring having one, two, or three heteroatoms selected from nitrogen, oxygen, or sulfur, and which is optionally mono- or polysubstituted by one or more groups selected from C₁-C₄-alkyl hydroxy, halogen, -CF₃, phenyl, benzyl, or -OC₁-C₄-alkyl, or
- (j) a 5- or 6-membered saturated or unsaturated ring having contain one, two, or three heteroatoms selected from nitrogen, oxygen, or sulfur and which is substituted by a

5- or 6-membered heteroaryl ring, which is optionally mono- or polysubstituted by methyl, halogen, hydroxy, -CF₃, or methoxy, or

(k) C₃-C₆-cycloalkyl optionally substituted by one or more groups selected from C₁-C₄-alkyl, hydroxy, halogen, -CF₃, -OC₁-C₄-alkyl, phenyl, or phenyl mono- or polysubstituted by methyl, halogen, hydroxy, -CF₃, or methoxy, or

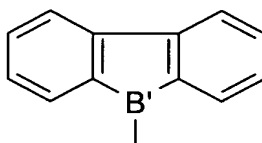
(l) C₃-C₆-cycloalkyl substituted by a 5- or 6-membered heteroaryl ring optionally mono- or polysubstituted by methyl, halogen, hydroxy, -CF₃, or methoxy, or

(m) a group of formula



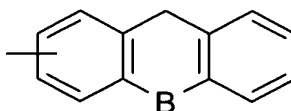
wherein B is -CH₂-, -NH-, -S-, or -O-, which is optionally mono- or polysubstituted by one or more groups selected from C₁-C₄-alkyl, hydroxy, halogen, -CF₃, or -OC₁-C₄-alkyl, or

(n) a group of formula



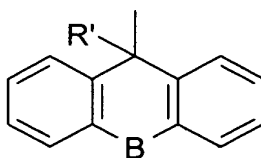
wherein B' is CH or N, which is optionally mono- or polysubstituted by one or more groups selected from C₁-C₄-alkyl, hydroxy, halogen, -CF₃, or -OC₁-C₄-alkyl, or

(o) a group of formula



wherein B is -CH₂-, -NH-, -S-, or -O-, which is optionally mono- or polysubstituted by one or more groups selected from C₁-C₄-alkyl, hydroxy, halogen, -CF₃, and -OC₁-C₄-alkyl, or

(p) a group of formula



wherein B is -CH₂-, -NH-, -S-, or -O-, and

R' is hydrogen, hydroxy, methyl, hydroxymethyl, ethyl, -CF₃, -CHF₂, or halogen, and

which is optionally mono- or polysubstituted by one or more groups selected from C₁-C₄-alkyl, hydroxy, halogen, -CF₃, or -OC₁-C₄-alkyl, or

R³ and R⁴ together with the nitrogen atom form a 5- or 6-membered saturated or unsaturated heterocyclic ring having zero, one, or two more heteroatoms selected from nitrogen, oxygen, or sulfur, and which is optionally mono- or polysubstituted by one or more groups selected from C₁-C₄-alkyl hydroxy, halogen, -CF₃, phenyl, benzyl, or -OC₁-C₄-alkyl, or

R³ and R⁴ together with the nitrogen atom form a 5- or 6-membered saturated or unsaturated heterocyclic ring substituted by a 5- or 6-membered heteroaryl ring optionally mono- or polysubstituted by methyl, halogen, hydroxy, -CF₃, or methoxy, and or

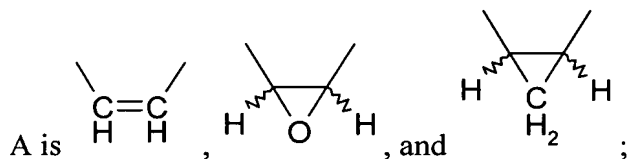
the pharmacologically acceptable acid addition salts, solvates, and hydrates thereof.

Claim 2. (Currently amended) The compound of formula 1 according to claim 1, wherein X⁻ is chloride, bromide, iodide, sulfate, phosphate, methanesulfonate, nitrate, maleate, acetate, citrate, fumarate, tartrate, oxalate, succinate, benzoate, or *p*-toluenesulfonate, and or the pharmacologically acceptable acid addition salts, solvates, and hydrates thereof.

Claim 3. (Currently amended) The compound of formula 1 according to claim 2, wherein X⁻ is chloride, bromide, methanesulfonate, or *p*-toluenesulfonate, and or the pharmacologically acceptable acid addition salts, solvates, and hydrates thereof.

Claim 4. (Currently amended) The compound of formula 1 according to claim 3, wherein X⁻ is bromide or methanesulfonate, and or the pharmacologically acceptable acid addition salts, solvates, and hydrates thereof.

Claim 5. (Currently amended) The compound of formula 1 according to one of claims 1, 2, 3, or 4, wherein:



R¹ and R², which are identical or different, are each C₁-C₃-alkyl optionally substituted by a C₃-C₅-cycloalkyl, hydroxy, or fluorine, or

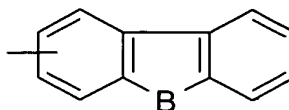
R¹ and R² together are a C₃-C₄-alkylene bridge; and

R³ and R⁴, which are identical or different, are each:

- (a) hydrogen, or
- (b) C₁-C₅-alkyl optionally substituted by hydroxy, fluorine, -CF₃, and methoxy, or
- (c) a phenyl or naphthyl group, each optionally substituted by one, two, or three groups selected from methyl, ethyl, hydroxy, fluorine, ~~chlorine~~, bromine, -CF₃, methoxy, phenyl, or phenyl mono-, di-, or trisubstituted by methyl, fluorine, ~~chlorine~~, bromine, hydroxy, -CF₃, or methoxy, or
- (d) a phenyl or naphthyl group, each optionally substituted by furan, thiophene, pyrrole, imidazole, pyridine, or pyrimidine, each optionally mono- or disubstituted by methyl, fluorine, chlorine, bromine, hydroxy, -CF₃, or methoxy, or
- (e) a benzyl or phenylethyl group, each optionally substituted at the phenyl ring by one, two, or three groups selected from methyl, ethyl, hydroxy, fluorine, chlorine, bromine, -CF₃, methoxy, phenyl, or phenyl mono-, di-, or trisubstituted by methyl, fluorine, chlorine, bromine, hydroxy, -CF₃, or methoxy, or
- (f) a benzyl or phenylethyl group, each substituted at the phenyl ring by furan, thiophene, pyrrole, imidazole, pyridine, or pyrimidine, which are optionally mono-

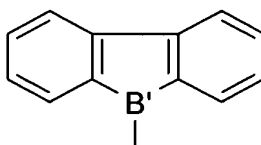
or disubstituted by methyl, fluorine, chlorine, bromine, hydroxy, -CF₃, or methoxy,
or

- (g) a benzyl or phenylethyl group, each optionally substituted at the alkylene bridge by one or two groups selected from methyl, ethyl, hydroxy, fluorine, chlorine, bromine, -CF₃, methoxy, or phenyl, or
- (h) a 5- or 6- membered saturated or unsaturated ring having one, two, or three heteroatoms selected from nitrogen, oxygen, or sulfur, and which is optionally mono-, di-, or trisubstituted by one or more groups selected from methyl, ethyl, hydroxy, fluorine, chlorine, bromine, -CF₃, phenyl, benzyl, or methoxy, or
- (i) a 5- or 6- membered saturated or unsaturated ring having one, two, or three heteroatoms selected from nitrogen, oxygen, or sulfur, and which is substituted by furan, thiophene, pyrrole, imidazole, pyridine, or pyrimidine, which is optionally mono- or disubstituted by methyl, fluorine, chlorine, bromine, hydroxy, -CF₃, or methoxy, or
- (j) a cyclopentyl or cyclohexyl group each optionally substituted by one, two, or three groups selected from methyl, ethyl, hydroxy, fluorine, chlorine, bromine, -CF₃, methoxy, phenyl, or phenyl mono-, di-, or trisubstituted by methyl, fluorine, chlorine, bromine, hydroxy, -CF₃, or methoxy, or
- (k) a cyclopentyl or cyclohexyl group each substituted by furan, thiophene, pyrrole, imidazole, pyridine, or pyrimidine, which is optionally mono- or disubstituted by methyl, fluorine, chlorine, bromine, hydroxy, -CF₃, or methoxy, or
- (l) a group of formula



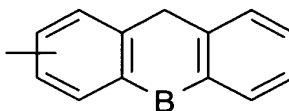
wherein B is -CH₂-, -NH-, -S-, or -O-, which is optionally mono-, di-, or trisubstituted by one or more groups selected from methyl, fluorine, chlorine, bromine, hydroxy, -CF₃ or methoxy, or

(m) a group of formula



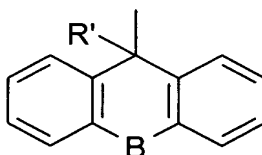
wherein B' is CH or N, which is optionally mono-, di-, or trisubstituted by one or more groups selected from methyl, fluorine, chlorine, bromine, hydroxy, -CF₃, or methoxy, or

(n) a group of formula



wherein B is -CH₂-, -NH-, -S-, or -O-, which is optionally mono-, di-, or trisubstituted by one or more groups selected from methyl, fluorine, chlorine, bromine, hydroxy, -CF₃, or methoxy, or

(o) a group of formula



wherein B is -CH₂-, -NH-, -S-, or -O-, and

R' is hydrogen, hydroxy, methyl, hydroxymethyl, ethyl, -CF₃, -CHF₂, or fluorine, and which is optionally mono-, di-, or trisubstituted by one or more groups selected from methyl, fluorine, chlorine, bromine, hydroxy, -CF₃, or methoxy, or

R³ and R⁴ together with the nitrogen atom form a 5- or 6-membered saturated or unsaturated heterocyclic ring having zero, one, or two more heteroatoms selected from nitrogen, oxygen, or sulfur, and which is optionally mono-, di-, or trisubstituted by one or more groups selected from methyl, fluorine, chlorine, bromine, hydroxy, phenyl, -CF₃, or methoxy, or

R³ and R⁴ together with the nitrogen atom form a 5- or 6-membered saturated or unsaturated heterocyclic ring having zero, one, or two more heteroatoms selected from nitrogen, oxygen, or sulfur, which is substituted by furan, thiophene, pyrrole, imidazole, pyridine, or pyrimidine, which is optionally mono- or disubstituted by methyl, fluorine, chlorine, bromine, hydroxy, -CF₃, or methoxy, or

the pharmacologically acceptable acid addition salts, solvates, and hydrates thereof.

Claim 6. (Currently amended) The compound of formula 1 according to claim 5, wherein:

R¹ and R², which are identical or different, are each a methyl or ethyl group optionally substituted by cyclopropyl, hydroxy, or fluorine, or

R¹ and R² together are a C₃-C₄-alkylene bridge;

R³ is hydrogen or C₁-C₃-alkyl optionally substituted by hydroxy, fluorine, or -CF₃; and

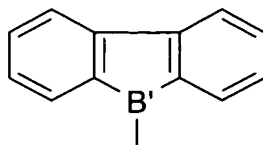
R⁴ is C₁-C₃-alkyl optionally substituted by hydroxy, fluorine, or -CF₃,

R⁴ is a phenyl group optionally substituted by one or two groups selected from furyl, thienyl, phenyl, or phenyl mono-, di-, or trisubstituted by methyl, fluorine, ~~chlorine~~, bromine, hydroxy, -CF₃, or methoxy, or

R⁴ is a benzyl group optionally substituted at the phenyl ring by one, two, or three groups selected from methyl, ethyl, hydroxy, fluorine, chlorine, bromine, -CF₃, methoxy, furyl, thienyl, or phenyl, or

R⁴ is a benzyl group optionally substituted at the methylene bridge by one, two, or three groups selected from methyl, ethyl, hydroxy, fluorine, chlorine, bromine, -CF₃, methoxy, or phenyl, or

R⁴ is a group of formula



wherein B' is CH optionally mono- or disubstituted by one or more groups selected from methyl, fluorine, chlorine, bromine, hydroxy, -CF₃, or methoxy, ~~and~~ or

the pharmacologically acceptable acid addition salts, solvates, and hydrates thereof.

Claim 7. (Currently amended) The compound of formula 1 according to claim 6, wherein:

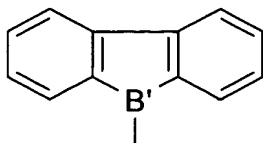
R⁴ is C₁-C₃-alkyl optionally substituted by hydroxy, fluorine, or -CF₃;

R⁴ is a phenyl group optionally substituted by phenyl optionally mono- or disubstituted by methyl, fluorine, hydroxy, or -CF₃, or

R⁴ is a benzyl group optionally substituted at the phenyl ring by one or two groups selected from methyl, ethyl, hydroxy, fluorine, -CF₃, or phenyl, or

R⁴ is a benzyl group optionally monosubstituted at the methylene bridge by phenyl, or

R⁴ is a group of formula



wherein B' is CH optionally mono- or disubstituted by one or more groups selected from methyl, fluorine, chlorine, bromine, hydroxy, -CF₃, or methoxy,

~~and~~ or the pharmacologically acceptable acid addition salts, solvates, and hydrates thereof.

Claim 8. (Currently amended) The compound of formula 1 according to one of claims 1 to 4, wherein R^1 and R^2 are each methyl, ~~and~~ or the pharmacologically acceptable acid addition salts, solvates, and hydrates thereof.

Claim 9. (Currently amended) The compound of formula 1 according to claim 5, wherein R^1 and R^2 are each methyl, ~~and~~ or the pharmacologically acceptable acid addition salts, solvates, and hydrates thereof.

Claim 10. (Currently amended) The compound of formula 1 according to claim 6, wherein R^1 and R^2 are each methyl, ~~and~~ or the pharmacologically acceptable acid addition salts, solvates, and hydrates thereof.

Claim 11. (Currently amended) The compound of formula 1 according to claim 7, wherein R^1 and R^2 are each methyl, ~~and~~ or the pharmacologically acceptable acid addition salts, solvates, and hydrates thereof.

Claim 12. (Currently amended) The compound of formula 1 according to one of claims 1 to 4, wherein R^3 is hydrogen or methyl, ~~and~~ or the pharmacologically acceptable acid addition salts, solvates, and hydrates thereof.

Claim 13. (Currently amended) The compound of formula 1 according to claim 5, wherein R^3 is hydrogen or methyl, ~~and~~ or the pharmacologically acceptable acid addition salts, solvates, and hydrates thereof.

Claim 14. (Currently amended) The compound of formula 1 according to claim 6, wherein R^3 is hydrogen or methyl, ~~and~~ or the pharmacologically acceptable acid addition salts, solvates, and hydrates thereof.

Claim 15. (Currently amended) The compound of formula 1 according to claim 7, wherein R^3 is hydrogen or methyl, and the pharmacologically acceptable acid addition salts, solvates, ~~and~~ or hydrates thereof.

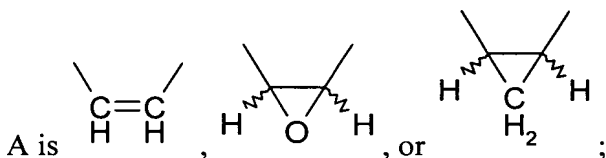
Claim 16. (Currently amended) The compound of formula 1 according to one of claims 1 to 4, wherein R⁴ is biphenyl, ~~benzhydryl~~ benzyl, fluorenyl, or biphenylmethyl, and ~~or~~ the pharmacologically acceptable acid addition salts, solvates, and hydrates thereof.

Claim 17. (Currently amended) The compound of formula 1 according to claim 5, wherein R⁴ is biphenyl, ~~benzhydryl~~ benzyl, fluorenyl, or biphenylmethyl, and ~~or~~ the pharmacologically acceptable acid addition salts, solvates, and hydrates thereof.

Claim 18. (Currently amended) The compound of formula 1 according to claim 6, wherein R⁴ is biphenyl, ~~benzhydryl~~ benzyl, fluorenyl, or biphenylmethyl, and ~~or~~ the pharmacologically acceptable acid addition salts, solvates, and hydrates thereof.

Claim 19. (Currently amended) The compound of formula 1 according to claim 7, wherein R⁴ is biphenyl, ~~benzhydryl~~ benzyl, fluorenyl, or biphenylmethyl, and ~~or~~ the pharmacologically acceptable acid addition salts, solvates, and hydrates thereof.

Claim 20. (Currently amended) The compound of formula 1 according to claim 1, wherein:



X⁻ is bromide or methanesulfonate;

R¹ and R² are each methyl;

R³ is hydrogen or methyl; and

R⁴ is biphenyl, ~~benzhydryl~~ benzyl, fluorenyl, or biphenylmethyl, and ~~and~~ or

the pharmacologically acceptable acid addition salts, solvates, and hydrates thereof.

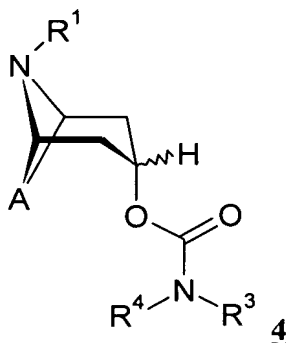
Claim 21. (Currently amended) A pharmaceutical composition comprising an effective amount of a compound of formula 1 according to one of claims 1 to 4 or a pharmacologically acceptable acid addition salt, solvate, or hydrate thereof, ~~and~~ or a pharmaceutically acceptable excipient or carrier.

Claim 22. (Withdrawn) The pharmaceutical composition according to claim 21, further comprising an additional active ingredient selected from the group consisting of: betamimetics, antiallergics, PAF antagonists, PDE-IV inhibitors, leukotriene antagonists, p38 kinase inhibitors, EGFR kinase inhibitors, and corticosteroids.

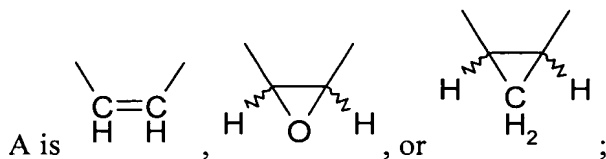
Claim 23. (Withdrawn) A method for treatment of a disease that benefits from treatment with antagonists of the M3 receptor in a patient, the method comprising administering to the patient in need thereof an effective amount of a compound of formula 1 according to claims 1 to 4 or a pharmacologically acceptable acid addition salt, solvate, or hydrate thereof.

Claim 24. (Withdrawn) A method for treatment of a disease or condition selected from asthma, COPD, vagally induced sinus bradycardia, heart rhythm disorders, spasms in the gastrointestinal tract, spasms in the urinary tract, and menstrual pain in a patient, the method comprising administering to the patient in need thereof an effective amount of a compound of formula 1 according to one of claims 1 to 4 or a pharmacologically acceptable acid addition salt, solvate, or hydrate thereof.

Claim 25. (Currently amended) A compound of formula 4



wherein:



R¹ is C₁-C₅-alkyl optionally substituted by C₃-C₆-cycloalkyl or hydroxy, or

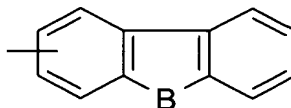
R¹ is -C₃-C₅-alkylene-X, wherein X is chloride, bromide, iodide, sulfate, phosphate, methanesulfonate, nitrate, maleate, acetate, citrate, fumarate, tartrate, oxalate, succinate, benzoate, or *p*-toluenesulfonate; and

R³ and R⁴, which are identical or different, are each:

- (a) hydrogen, or
- (b) C₁-C₅-alkyl optionally mono- or polysubstituted by one or more groups selected from hydroxy, halogen, -CF₃, or -OC₁-C₄-alkyl, or
- (c) a C₂-C₅-alkenyl or C₂-C₅-alkynyl group, each optionally mono- or polysubstituted by one or more groups selected from hydroxy, halogen, -CF₃, -OC₁-C₄-alkyl, phenyl, or phenyl mono- or polysubstituted by methyl, halogen, hydroxy, -CF₃, or methoxy, or
- (d) C₆-C₁₀-aryl optionally substituted by one or more groups selected from C₁-C₄-alkyl, hydroxy, ~~halogen~~ fluorine, bromine, -CF₃, -OC₁-C₄-alkyl, phenyl, or phenyl mono- or polysubstituted by methyl, ~~halogen~~ fluorine, bromine, hydroxy, -CF₃, or methoxy, or
- (e) C₆-C₁₀-aryl substituted by a 5- or 6-membered heteroaryl ring optionally mono- or polysubstituted by methyl, halogen, hydroxy, -CF₃, or methoxy, or
- (f) C₆-C₁₀-aryl-C₁-C₄-alkylene optionally substituted at the aryl group by one or more groups selected from C₁-C₄-alkyl, hydroxy, halogen, -CF₃, -OC₁-C₄-alkyl, phenyl,

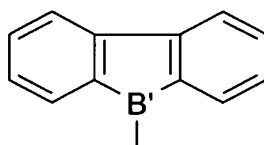
or phenyl mono- or polysubstituted by methyl, halogen, hydroxy, -CF₃, or methoxy,
or

- (g) C₆-C₁₀-aryl-C₁-C₄-alkylene substituted at the aryl group by a 5- or 6-membered heteroaryl ring optionally mono- or polysubstituted by methyl, halogen, hydroxy, -CF₃, or methoxy, or
- (h) C₆-C₁₀-aryl-C₁-C₄-alkylene optionally substituted at the alkylene group by one or more groups selected from C₁-C₄-alkyl, hydroxy, halogen, -CF₃, -OC₁-C₄-alkyl, or phenyl, or
- (i) a 5- or 6-membered saturated or unsaturated ring having one, two, or three heteroatoms selected from nitrogen, oxygen, or sulfur, and which is optionally mono- or polysubstituted by one or more groups selected from C₁-C₄-alkyl hydroxy, halogen, -CF₃, phenyl, benzyl, or -OC₁-C₄-alkyl, or
- (j) a 5- or 6-membered saturated or unsaturated ring having one, two, or three heteroatoms selected from nitrogen, oxygen, or sulfur, and which is substituted by a 5- or 6-membered heteroaryl ring, which is optionally mono- or polysubstituted by methyl, halogen, hydroxy, -CF₃, or methoxy, or
- (k) C₃-C₆-cycloalkyl optionally substituted by one or more groups selected from C₁-C₄-alkyl, hydroxy, halogen, -CF₃, -OC₁-C₄-alkyl, phenyl, or phenyl mono- or polysubstituted by methyl, halogen, hydroxy, -CF₃, or methoxy, or
- (l) C₃-C₆-cycloalkyl substituted by a 5- or 6-membered heteroaryl ring optionally mono- or polysubstituted by methyl, halogen, hydroxy, -CF₃, or methoxy, or
- (m) a group of formula



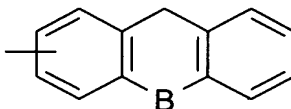
wherein B is -CH₂-, -NH-, -S-, or -O-, which is optionally mono- or polysubstituted by one or more groups selected from C₁-C₄-alkyl, hydroxy, halogen, -CF₃, or -OC₁-C₄-alkyl, or

(n) a group of formula



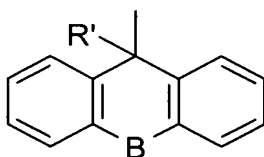
wherein B' is CH or N, which is optionally mono- or polysubstituted by one or more groups selected from C₁-C₄-alkyl, hydroxy, halogen, -CF₃, or -OC₁-C₄-alkyl, or

(o) a group of formula



wherein B is -CH₂-, -NH-, -S-, or -O-, which is optionally mono- or polysubstituted by one or more groups selected from C₁-C₄-alkyl, hydroxy, halogen, -CF₃, or -OC₁-C₄-alkyl, or

(p) a group of formula

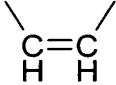


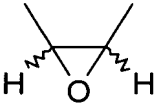
wherein B is -CH₂-, -NH-, -S-, or -O-, and
R' is hydrogen, hydroxy, methyl, hydroxymethyl, ethyl, -CF₃, -CHF₂, or halogen, and which is optionally mono- or polysubstituted by one or more groups selected from C₁-C₄-alkyl, hydroxy, halogen, -CF₃, or -OC₁-C₄-alkyl, or

R³ and R⁴ together with the nitrogen atom form a 5- or 6-membered saturated or unsaturated heterocyclic ring having zero, one, or two more heteroatoms selected from nitrogen, oxygen, or sulfur, and which is optionally mono- or polysubstituted by one or more groups selected from C₁-C₄-alkyl hydroxy, halogen, -CF₃, phenyl, benzyl, or -OC₁-C₄-alkyl, or

R³ and R⁴ together with the nitrogen atom form a 5- or 6-membered saturated or unsaturated heterocyclic ring substituted by a 5- or 6-membered heteroaryl ring, which is optionally mono- or polysubstituted by methyl, halogen, hydroxy, -CF₃, or methoxy, and

the acid addition salts, solvates, and hydrates thereof,

with the proviso that if A is , R¹ is methyl, and R³ is hydrogen, R⁴ cannot be phenyl, pentafluorophenyl, 2-chloro-4-trifluoromethylphenyl, ~~3-chloro-4-methoxyphenyl~~, or cyclopentyl; and

with the proviso that if A is , R¹ is methyl, and R³ is hydrogen, R⁴ cannot be phenyl.

Claim 26. The compound of formula 4 according to claim 25, wherein:

R¹ is C₁-C₃-alkyl optionally substituted by C₃-C₅-cycloalkyl, hydroxy, or fluorine, or

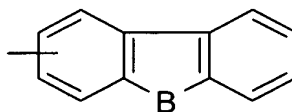
R¹ is C₃-C₄-alkylene-X, wherein X is chloride, bromide, methanesulfonate, or *p*-toluenesulfonate;

R³ and R⁴, which are identical or different, are each:

- (a) hydrogen, or
- (b) C₁-C₅-alkyl optionally substituted by hydroxy, fluorine, -CF₃, or methoxy, or

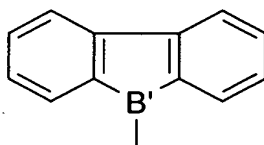
- (c) a phenyl or naphthyl group optionally substituted by one, two, or three groups selected from methyl, ethyl, hydroxy, fluorine, ~~chlorine~~, bromine, -CF₃, methoxy, phenyl, or phenyl mono-, di-, or trisubstituted by methyl, fluorine, chlorine, bromine, hydroxy, -CF₃, or methoxy, or
- (d) a phenyl or naphthyl group, each substituted by furan, thiophene, pyrrole, imidazole, pyridine, or pyrimidine, which is optionally mono- or disubstituted by methyl, fluorine, ~~chlorine~~, bromine, hydroxy, -CF₃, or methoxy, or
- (e) a benzyl or phenylethyl group, each optionally substituted at the phenyl ring by one, two, or three groups selected from methyl, ethyl, hydroxy, fluorine, chlorine, bromine, -CF₃, methoxy, phenyl, or phenyl mono-, di-, or trisubstituted by methyl, fluorine, chlorine, bromine, hydroxy, -CF₃, or methoxy, or
- (f) a benzyl or phenylethyl group, each substituted at the phenyl ring by furan, thiophene, pyrrole, imidazole, pyridine, or pyrimidine, which is optionally mono- or disubstituted by methyl, fluorine, chlorine bromine, hydroxy, -CF₃, or methoxy, or
- (g) a benzyl or phenylethyl group, each optionally substituted at the alkylene bridge by one or two groups selected from methyl, ethyl, hydroxy, fluorine, chlorine, bromine, -CF₃, methoxy, or phenyl, or
- (h) a 5- or 6- membered saturated or unsaturated ring having one, two, or three heteroatoms selected from nitrogen, oxygen, or sulfur, and which is optionally mono-, di-, or trisubstituted by one or more groups selected from methyl, ethyl, hydroxy, fluorine, chlorine, bromine, -CF₃, phenyl, benzyl, and methoxy, or
- (i) a 5- or 6-membered saturated or unsaturated ring having one, two, or three heteroatoms selected from nitrogen, oxygen, or sulfur, and which is substituted by furan, thiophene, pyrrole, imidazole, pyridine, or pyrimidine, which is optionally mono- or disubstituted by methyl, fluorine, chlorine, bromine, hydroxy, -CF₃, or methoxy, or

- (j) a cyclopentyl or cyclohexyl group, each optionally substituted by one, two, or three groups selected from methyl, ethyl, hydroxy, fluorine, chlorine, bromine, $-\text{CF}_3$, methoxy, phenyl, or phenyl mono-, di-, or trisubstituted by methyl, fluorine, chlorine, bromine, hydroxy, $-\text{CF}_3$, or methoxy, or
- (k) a cyclopentyl or cyclohexyl group, each substituted by furan, thiophene, pyrrole, imidazole, pyridine, or pyrimidine, which is optionally mono- or disubstituted by methyl, fluorine, chlorine, bromine, hydroxy, $-\text{CF}_3$, or methoxy, or
- (l) a group of formula



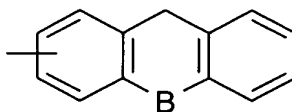
wherein B is $-\text{CH}_2-$, $-\text{NH}-$, $-\text{S}-$, or $-\text{O}-$, which is optionally mono-, di-, or trisubstituted by one or more groups selected from methyl, fluorine, chlorine, bromine, hydroxy, $-\text{CF}_3$, or methoxy, or

- (m) a group of formula



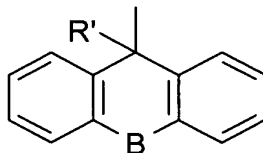
wherein B' is CH or N, which is optionally mono-, di-, or trisubstituted by one or more groups selected from methyl, fluorine, chlorine, bromine, hydroxy, $-\text{CF}_3$, or methoxy, or

- (n) a group of formula



wherein B is $-\text{CH}_2-$, $-\text{NH}-$, $-\text{S}-$, or $-\text{O}-$, which is optionally mono-, di-, or trisubstituted by one or more groups selected from methyl, fluorine, chlorine, bromine, hydroxy, $-\text{CF}_3$, or methoxy, or

- (o) a group of formula



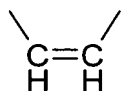
wherein B is -CH₂-, -NH-, -S-, or -O-, and

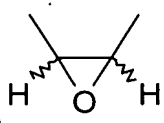
R' is hydrogen, hydroxy, methyl, hydroxymethyl, ethyl, -CF₃, -CHF₂, or fluorine, and which is optionally mono-, di-, or trisubstituted by one or more groups selected from methyl, fluorine, chlorine, bromine, hydroxy, -CF₃, and methoxy, or

R³ and R⁴ together with the nitrogen atom form a 5- or 6-membered saturated or unsaturated heterocyclic ring having zero, one, or two more heteroatoms selected from nitrogen, oxygen, or sulfur, and which is optionally mono-, di-, or trisubstituted by methyl, fluorine, chlorine, bromine, hydroxy, phenyl, -CF₃, or methoxy, or

R³ and R⁴ together with the nitrogen atom form a 5- or 6-membered saturated or unsaturated heterocyclic ring having zero, one, or two more heteroatoms selected from nitrogen, oxygen, or sulfur, which is substituted by furan, thiophene, pyrrole, imidazole, pyridine, or pyrimidine, which is optionally mono- or disubstituted by methyl, fluorine, chlorine bromine, hydroxy, -CF₃, or methoxy, and

the acid addition salts, solvates, and hydrates thereof,

with the proviso that if A is , R¹ is methyl, and R³ is hydrogen, R⁴ cannot be phenyl, 2-chloro-4-trifluoromethylphenyl, 3-chloro-4-methoxyphenyl, or cyclopentyl; and

with the proviso that if A is , R¹ is methyl, and R³ is hydrogen, R⁴ cannot be phenyl.

Claim 27. (Currently amended) The compound of formula 4 according to claim 26, wherein:

R¹ is a methyl or ethyl group, each optionally substituted by cyclopropyl, hydroxy, or fluorine, or

R^1 is C_3 - C_4 -alkylene-X, wherein X is chloride, bromide, methanesulfonate, or *p*-toluenesulfonate;

R^3 is hydrogen or C_1 - C_3 -alkyl optionally substituted by hydroxy, fluorine, or $-CF_3$;

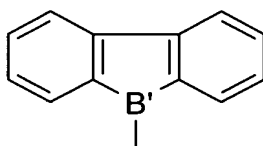
R^4 is C_1 - C_3 -alkyl optionally substituted by hydroxy, fluorine, or $-CF_3$, or

R^4 is a phenyl group optionally substituted by one or two groups selected from furyl, thienyl, phenyl, or phenyl mono-, di-, or trisubstituted by methyl, fluorine, ~~chlorine~~, bromine, hydroxy, $-CF_3$, or methoxy, or

R^4 is a benzyl group optionally substituted at the phenyl ring by one, two, or three groups selected from methyl, ethyl, hydroxy, fluorine, chlorine, bromine, $-CF_3$, methoxy, furyl, thienyl, or phenyl, or

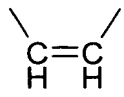
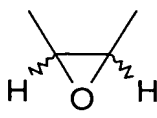
R^4 is a benzyl group optionally substituted at the methylene bridge by one, two, or three groups selected from methyl, ethyl, hydroxy, fluorine, chlorine, bromine, $-CF_3$, methoxy, or phenyl, or

R^4 is a group of formula



wherein B' is CH optionally mono- or disubstituted by one or more groups selected from methyl, fluorine, chlorine, bromine, hydroxy, $-CF_3$, or methoxy, and

the acid addition salts, solvates, and hydrates thereof,

with the proviso that if A is  or , R^1 is methyl, and R^3 is hydrogen, R^4 cannot be phenyl.

Claim 28. (Original) The compound of formula 4 according to claim 27, wherein:

R^1 is a methyl or ethyl group, each optionally substituted by cyclopropyl, hydroxy, or fluorine, or

R^1 is C_3 - C_4 -alkylene-X, where X is chloride, bromide, methanesulfonate, and *p*-toluenesulfonate;

R^3 is hydrogen or C_1 - C_3 -alkyl optionally substituted by hydroxy, fluorine, or $-CF_3$;

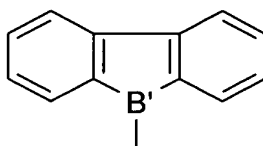
R^4 is C_1 - C_3 -alkyl optionally substituted by hydroxy, fluorine, or $-CF_3$, or

R^4 is a phenyl group optionally substituted by phenyl optionally mono- or disubstituted by methyl, fluorine, hydroxy, or $-CF_3$, or

R^4 is a benzyl group optionally substituted at the phenyl ring by one or two groups selected from methyl, ethyl, hydroxy, fluorine, $-CF_3$, or phenyl, or

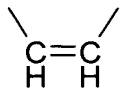
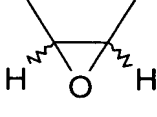
R^4 is a benzyl group optionally monosubstituted by phenyl at the methylene bridge, or

R^4 is a group of formula



wherein B' is CH optionally mono- or disubstituted by one or more groups selected from methyl, fluorine, chlorine, bromine, hydroxy, $-CF_3$, or methoxy, and

the acid addition salts, solvates, and hydrates thereof,

with the proviso that if A is  or , R^1 is methyl, and R^3 is hydrogen, R^4 cannot be phenyl.

AMENDMENT

U.S. Appln. No. 10/718,403

Claim 29. (Currently amended) The compound of formula 4 according to claim 28, wherein:

R¹ is methyl;

R³ is hydrogen or methyl; and

R⁴ is biphenyl, ~~benzhydryl~~ benzyl, fluorenyl, or biphenylmethyl, and

the acid addition salts, solvates, and hydrates thereof.